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| **1.0 Purpose** |
| This document summarises the systems requirements of the Tutorial builder project. It should be read in conjunction with the business case. |

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| **1.1 Intended Audience** |
| This project tries to cover vast amount of audience from students trying to lean new topics, teachers trying to learn new methodologies over existing solutions, to business entities who are using old way to solve a problem and now want to learn newly published and more effective solution of the same problem. Even people working in research field need to learn what others have done on a particular topic and want to learn that.  This project tries to relieve all those people mentioned above and others who want to learn new topics in technical field. |

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| **1.2 Project Background** |
| Similar projects may have been implemented inn past but we are currently unaware of it. Project functions on extensive use of web crawlers and literature analysis. Those two systems have been implemented and researched on thoroughly. But they are almost never used together on a system. This project tried to tie a knot between those two systems. |

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| **1.3** **Objectives** |
| The idea of project needs extensive use of web crawlers to gather relevant information from web and store it in data bank. So main objective of this system is to implement web crawler system.  As web crawlers gather relevant data from vast web, gathered data is also in proportion and is very huge. So we need to have efficient data bank to store those results.  All the data from those results is not useful so we need to extract only useful data out of it. So we need to implement machine learning technique for that.  Extracted useful data is in the form of pieces and we need to gather those pieces together to be useful. We need to use literature analysis for that.  The finalised tutorials need to be stored in database for easier access from front end. We need to implement database for that.  Users of this projects can access tutorials and use other services only through front end. So we need to implement easy to use front end. |

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| **1.4 *Benefits*** |
| When learning a new topic the most important factor is to have right reference base. It is not always possible to get right resources and some times it is not economical. So we may be left out without right information. This system tries to provide best solution for given topic which minimises efforts of gathering them.  As this system provides ready to use tutorials it saves a lot of time to find good knowledge base.  Sometimes user maybe be completely unaware of particular topic then finding right information becomes really hard. This system helps them user can spend more time studying the topic rather than searching on it.  If user wants to stick to reference book for studying user may miss out others point of views which may be more useful.  So in short this system tries to make studying lot easier. |

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| ***1.5 Stakeholders*** |
| The project is a system and not a plug-in for another project. So Stakeholders in this project are the intended audience themselves |

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| Stakeholder Group | Role |
| Chief Executive | Champions need for step change  Provides visible sponsorship  Uses BPM as key tool. |
| Other executives | Champions need for step change  Provides visible sponsorship  Uses BPM as key tool. |
| IT groups | May be responsible for business intelligence but will also be concerned with data availability, definition, control and accessibility as well as concerned re software and hardware needs. |
| Data providers | BPM projects need raw data and without support it may not be provided. |
| Performance commentators | Data needs to be interpreted and often the commentators are a separate group from the data providers. |
| Divisional or business unit heads | Will want consistency between their own reporting and any consolidated reporting. |
| Head office departments | Often have interest in ensuring common data definitions, accounting methodologies and software choices. |

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| **1.6 *Dependencies on existing systems*** |
| The project depends on few existing systems and they are :  Web crawler system,  Database system,  Machine learning system,  Literature analysis. |

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| **1.7 Assumptions** |
| **Describe the major assumptions that were made prior to or during the business requirements gathering and documentation.** |

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| **2.0 *Requirements scope*** |
| **Outline what business functionality is in scope and out of scope for implementation.Include an overall high-level Use case diagram indicating which use cases are out of scope for Implementation. Draw separate boundary boxes around “in scope” use cases and “out of scope” use cases. See the example below :**  If Function Hierarchy Diagram (FHD) modeling is done using Oracle Designer for these Business Requirements instead of Use case modeling, then include an overall high-level Function Hierarchy diagram indicating which Functions are out of scope for Implementation. Please draw the “out of scope” Function boxes in **grey** **color** as shown in the example below : 2.1 In Scope **List the use cases/business functions that are in scope.**  **Provide a brief description (2-3 lines) for each of these use case/business functions.**  List the system/organizational interfaces that are **in scope**. Mention the name and a brief 2-3 lines short description for each interface that is in scope. Out of Scope **List here requirements that are out of scope – this is a key aspect, particularly when using outside parties to configure the software.** |

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| **3.0 *Functional requirements*** |
| **Describe the functional requirements of the project here.**  [Functional requirements define how the BPM system should function from the end-user's perspective. They describe the features and functions with which the end-user will interact directly.  When interpreting and recording requirements it is important to clearly define and prioritise them, analyse the impact of change, resolve conflicting issues and analyse feasibility.] |

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| **4.0 *Non-functional requirements*** |
| **Define the operations that must be carried out in the background to keep the product or process functioning over a period of time and the required service standards** |

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| **5.0 *Technical requirements*** |
| **Define the technical issues that must be considered to successfully implement the process or create the product. This should include data requirements.** |

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| ***6.0*  Interface Requirements** |
| Describe the User and System Interface requirements for the proposed system.7.1 User Interface RequirementsDescribe how the users will interact with the system, in particular any manual processes to be carried out outside of the system.Also describe the user interface requirements. Include or attach a screen prototype diagram here.7.2 System Interface RequirementsDescribe the other systems with which the BPM system will interact, both as inputs and outputs. Outline any automated control and reconciliation requirements as well.List and describe what other external systems/business functions are required to be interfaced with the proposed system from Business Requirements perspective. *Example: This system needs to interface with the CAS in order to receive some input data.*[Note: Avoid describing system design and technical issues.] |

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| ***8.0 Business Glossary*** |
| Include a complete glossary of business terms used in this document. |

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